Appl. No. 10/526,529
Reply to Office action of May 14, 2008

1890-0205

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the

application:

Listing of Claims:

Claim 1–8 (canceled)

Claim 9 (currently amended). An arrangement in a data switch having at least one

~~plurality of~~ ingress ports and a plurality of egress ports connected by a switching

fabric, the arrangement comprising:

at least one ~~plurality of~~ ingress queues configured to queue data derived from

data packets received at the ingress ports;

a broadcast packet estimation unit configured to ~~obtain a measure of the~~

~~frequency of arrival of broadcast packets based on a measure of~~ determine the length

of ~~at least one of~~ the at least one ingress queues; and

a broadcast packet control unit having a broadcast storm control mode in

which the broadcast packet control unit performs a broadcast storm control operation,

the broadcast packet control unit configured to operate in broadcast storm control

mode ~~based on~~ if the obtained measure of the length of the at least one ingress

queue ~~the frequency of arrival of broadcast packets~~ rises above a first predetermined

level before the data packets are queued in the at least one ingress queue, wherein the

broadcast packet control unit is configured to only admit broadcast packets to the at

least one ingress queue when not in broadcast storm control mode.

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Claim 10 (currently amended). The arrangement according to claim 9 <u>further comprising a plurality of ingress queues</u> wherein the broadcast packet estimation unit is configured to determine the <u>length of the at least one ingress queue</u> measure of the frequency of arrival of broadcast packets as the length of the longest of the <u>ingress</u> queues.

Claim 11 (previously presented). The arrangement according to claim 10 wherein the broadcast packet control unit is configured to perform the broadcast storm control by deleting at least some of the broadcast packets.

Claim 12 (cancelled).

Claim 13 (cancelled).

Claim 14 (previously presented). The arrangement according to claim 9 wherein the broadcast packet control unit is configured to perform the broadcast storm control by deleting at least some of the broadcast packets.

Claim 15 (cancelled).

Claim 16 (cancelled).

Claim 17 (currently amended). A method of operating a data switch having <u>at least one</u> plurality of ingress ports and <u>a plurality of</u> egress ports connected by a switching

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fabric, the switch having at least one ~~plurality of~~ ingress queues for queuing data

derived from data packets arriving at the ingress ports, the method comprising:

a) deriving a measure of a length of the at least one ~~of the~~ ingress queues;

~~b) using the measure of a length of at least one of the queues to obtain a~~

~~measure of a frequency of arrival of broadcast packets~~; and

~~c)~~ triggering a broadcast storm control mode in which broadcast storm control

is performed before the data packets are queued in the at least one ingress queue

~~according to~~if the measure of the length of the at least one ingress queue rises above a

first predetermined level~~measure of the frequency of arrival of broadcast packets~~.

Claim 18 (currently amended). The method according to claim 17 wherein ~~step~~

~~b)~~there are a plurality of ingress ports and ingress queues ~~further comprises using~~ and

the measure of a length of the longest of the ingress queues is used to obtain the

measure of the length of the at least one ingress queue~~frequency of arrival of~~

~~broadcast packets~~.

Claim 19 (cancelled).

Claim 20 (currently amended). The method according to claim 18[[9]], wherein the

broadcast storm control is performed by deleting at least some of the broadcast

packets.

Claim 21 (currently amended). The method according to claim 20 further including a

step of ceasing to delete packets when the measure of the length of the at least one

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ingress queuefrequency of arrival of broadcast packets falls below a second

predetermined level.

Claim 22 (cancelled).

Claim 23 (currently amended). The method according to claim [[22]]17, wherein the

broadcast storm control is performed by deleting at least some of the broadcast

packets.

Claim 24 (currently amended). The method according to claim 17 wherein there are a

plurality of ingress port and ingress queues step b) further comprises using a sum a

and the length of each of the a plurality of the at least one ingress queues is summed

to obtain the measure of the length of the at least one ingress queuefrequency of

arrival of broadcast packets.

Claim 25 (currently amended). A method of operating a data switch having at least

one plurality of ingress ports and a plurality of egress ports connected by a switching

fabric, the switch having at plurality of least one ingress queues for queuing data

derived from data packets arriving at the ingress ports, the method comprising:

a) deriving a measure of a length of the at least one of the ingress queues;

b) using the measure of a length of a longest of the at least one queues to

obtain a measure of a frequency of arrival of broadcast packets; and

e) deleting at least some of the broadcast packets before admission to the

ingress queue based uponif the measure of the length of the at least one ingress queue

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rises above a first predetermined level~~measure of the frequency of arrival of broadcast~~

~~packets~~.

Claim 26 (currently amended). The method of claim 25 wherein <u>there are a plurality</u>

<u>of ingress port and ingress queues</u> ~~step b) further comprises using the measure of~~ <u>and</u>

the length of the longest of the ~~at least one~~ <u>plurality of ingress</u> queues <u>is used</u> as the

<u>length of the at least one ingress queue</u>~~measurement of the frequency of arrival of~~

~~broadcast packets~~.

Claim 27 (currently amended). The method according to claim 26 further including a

step of ceasing to delete packets when the measure of the <u>length of the at least one</u>

<u>ingress queue</u> ~~frequency of arrival of broadcast packets~~ falls below a predetermined

level.

Claim 28 (currently amended). The method according to claim 25 further including a

step of ceasing to delete packets when the measure of the <u>length of the at least one</u>

<u>ingress queue</u> ~~frequency of arrival of broadcast packets~~ falls below a predetermined

level.